

**MEETING NOTES
FINAL**

Meeting Date: April 30, 2014

Meeting Notes

Submittal Dates: July 24, 2014 – Submitted to NDEP
October 27, 2014 – NDEP Comments
December 15, 2014 – Revision 1 submitted to NDEP

Place: NV Energy Pearson Building
Las Vegas, Nevada

Project/Purpose: NV Energy - Reid Gardner Station
Implementation of Administrative Order on Consent (AOC)
Quarterly AOC Meeting

Attendees: Alison Oakley/NDEP
Scott Smale/NDEP
Brad Cross/ARCADIS U.S., Inc.
John Kivett/ARCADIS U.S. Inc.
Michael Shivel/ACADIS U.S. Inc. (via telephone)
David Hull/ARCADIS U.S., Inc. (via telephone)
Mike Rojo/NV Energy
Jason Reed/NV Energy
Scott Dethloff/CH2M Hill
Matt Johns/CH2M Hill
Sergio Escobar/CDWR
Peter Mesard/Exponent
Joseph Scalia/ Exponent (via telephone)
Becky Svatos/Stanley Consultants
Bill Carrig/Stanley Consultants
Jonathan Sarich/Stanley Consultants
Africa Espina/Stanley Consultants
Julie Oriano/Stanley Consultants
Notes By: Jonathan Sarich/Stanley Consultants

A meeting was held between representatives of NV Energy, the California Department of Water Resources (CDWR), and the Nevada Division of Environmental Protection (NDEP) on April 30, 2014, to discuss the status of the implementation of the AOC signed by NV Energy and NDEP on February

22, 2008. The primary purpose of this meeting was to discuss the Muddy River Work Plan. Topics discussed during the meeting are summarized below.

Muddy River Work Plan – The agenda provided for this meeting was modified at the onset of the meeting by NV Energy. NV Energy stated that a goal of the meeting was to discuss the best approach to determine if Station activities are impacting the Muddy River. Before discussing the details of data collection, NV Energy desired to obtain NDEP input on applicable Nevada rules as they pertain to impacts to the river. NV Energy reviewed potentially applicable regulations and asked for NDEP input on whether these were appropriate.

NV Energy stated that the margin of error in preliminary water balance calculations suggests that collecting additional data will not necessarily result in more accurate results. NV Energy is evaluating a more targeted approach which will collect only the data necessary for decision making. NV Energy is proposing to collect manual stream gauging data at several locations on a quarterly basis for one year. During the stream gauging, a water sample will be taken to analyze for, at least, TDS, but NV Energy will consider additional surface water analyses as well. The TDS concentrations will be used to estimate the loading to the river as it travels through the Station. A water balance will also be used to calculate the flux of groundwater into the river.

- Recommendations: NDEP confirmed that the risk-based corrective action regulations are available to address contaminated groundwater near the Muddy River, but that is not the only approach. NDEP also cautioned that work plans should not be written to support a pre-identified end point.

NDEP stated that the Muddy River is a receptor of concern for contamination, and that a point of compliance is required for demonstration that requirements are met before impacting the receptor. A robust conceptual site model is needed which includes mechanisms which describe why contamination is or is not affecting the Muddy River, including a demonstration of future protection of the river.

NDEP stated that further investigation into geochemical processes will also help to understand and document plume mobility/stability.

- Action Items: NDEP and NV Energy to schedule a technical workshop to determine what data should be collected during Muddy River and Pond Area characterization work plan implementations. A technical discussion was tentatively scheduled for June 5-6. NDEP and ARCADIS U.S., Inc. reported that they will submit a request to NV Energy for specific available data to assist with their preparation for a technical meeting.

NDEP and NV Energy agreed that work plans will be provided to the NDEP for approval to further evaluate the soils beneath Ponds D, F, G, 4A, 4C-1 and 4C-2, to determine the extent of a possible secondary source (impacted soils), if any. This will be further discussed with the NDEP prior to submittal.

Background Conditions Report – NV Energy received NDEP’s comments on the Background Conditions Report dated April 28, 2014 and anticipates that a revised draft can be submitted by June 30, 2014.

- Action Item: NV Energy to submit revised Background Conditions Report

Groundwater Monitoring and Remediation Report (GMR) – The NDEP reported that they will no longer provide comments on GMRs that are submitted by NV Energy, rather acceptance letters will be issued. The NDEP stated that the report format is outdated and should be revised.

- Recommendation: NV Energy and NDEP agree that changes to the parameter lists (removal of some parameters and addition of others) and reductions in the number of wells should be pursued as part of the groundwater monitoring program.
- Action Item: NV Energy and NDEP will work together to revise the GMR format and parameters list.

Diesel Recovery System – NV Energy reported that the diesel recovery system is currently operating and soon operations will be handled by NV Energy personnel, as opposed to an outside contractor. Following a TCLP analysis, no chlorinated solvents were detected in diesel product removed from monitoring well MW-50R. These results will be incorporated into the Annual GMR.

Laser Induced Fluorescence (LIF) Investigation Work Plan – The LIF Investigation Work Plan has been approved by the NDEP. NV Energy reported that a vendor came to the Reid Gardner Station to ensure direct push technology would be effective pushing through lithology present in the project area. The vendor reported no problems and NV Energy plans to move forward with the LIF work. NV Energy will put the LIF contract out to bid in the next couple of weeks.

Pond 4A/4C-1/4C-2 Solids Removal Work Plans – NV Energy reported that the Pond 4A/4C-1/4C-2 Solids Removal Work Plans are being revised based on comments from the NDEP dated March 17, 2014. NDEP conveyed that the Sierra Club and the Moapa Band of Paiutes separately discussed their concerns with the NDEP over future air quality issues potentially occurring during the removal of the pond solids at Ponds 4A, 4C-1 and 4C-2. NDEP requested that NV Energy include a description of dust control measures that will be employed during solids removal activities in the revised Solids Removal Work Plans. NV Energy stated that the revised Work Plans will be submitted to NDEP within the next few weeks and the bid specifications will include dust control measures.

The request for bids is expected to be sent to solids removal contractors in May 2014. On June 4, 2014, test pits will be dug at Ponds 4C-1 and 4C-2 to allow contractors to view subsurface conditions. NDEP stated that a representative from ARCADIS U.S., Inc. will be present during this meeting. Solids removal activities are expected to begin in July/August 2014.

NDEP Website – NV Energy stated that they will provide some suggested wording for the NDEP website to more accurately reflect the description of the Reid Gardner Station. The NDEP reported that they are currently investigating ways to make AOC documents (including draft reports) more accessible to the public via the website and may request electronic versions of draft documents in the future. The

NDEP may also request electronic versions of data collected as part of an NDEP-approved Work Plan prior to the Sampling and Analysis Report. NV Energy stated that once validated, data (along with the data validation reports) are generally submitted to the NDEP prior to the Sampling and Analysis Reports.

Planned AOC Activities for 2014-2015 – NDEP previously requested a summary of AOC activities anticipated for 2014-2015. NV Energy reported that they are in the process of working on a long term schedule that includes retiring Units 1-3 in 2014 and Unit 4 in 2017. Major projects anticipated for 2014 include Ponds 4A, 4C-1, and 4C-2 solids removal, the LIF investigation and preparation of the Muddy River Work Plan.

- Action Item: NV Energy to provide a list of planned activities for 2014-2015 to NDEP for resource planning purposes.

Closure Plan – Based on changes to the regulations, NV Energy will revise the Closure Plan that was previously submitted to the NDEP and approved in 2008. The updated Closure Plan will be provided to NDEP for approval.

Next AOC Meeting – The third quarter AOC meeting is scheduled for July 30, 2014. The time and location will be determined at a later date. The fourth quarter AOC meeting is tentatively scheduled for October 29, 2014.

NDEP Action Items from Quarterly AOC Meeting on April 30, 2014

Priority	Deliverables Already Submitted to NDEP	Submittal Date	Party Responsible	Notes
	2013 Annual GMR	1-28-14	NDEP/ARCADIS	NDEP to issue acceptance letter

Priority	Future Submittals and Action Items	Estimated Delivery Date	Party Responsible	Notes
	Meeting minutes from January 29, 2014, quarterly AOC meeting/background workshop	May 2014	NV Energy /Stanley Consultants	
	Revised Ponds 4A/C1/C2 Solids Removal Work Plans	May 2014	NV Energy /Stanley Consultants	
	Revised Background Report	June 2014	NV Energy /Stanley Consultants	
	Revised Closure Plan addressing regulatory changes since 2008	TBD	NV Energy /Stanley Consultants	
	Provide revised wording suggestions for the NDEP website regarding the description of the Reid Gardner Station	TBD	NV Energy /Stanley Consultants	
	Muddy River Work Plan	TBD	NV Energy /Stanley Consultants	NV Energy to discuss with NDEP prior to submittal.
	Ponds D/G solids removal oversight report	TBD	ARCADIS	ARCADIS to document their oversight activities

**NV Energy – Reid Gardner Station
Implementation of Administrative Order on Consent
Quarterly AOC Meeting
April 30, 2014, 10:00 AM
List of Attendees**

Name	Representing	Phone	E-Mail
Alison Oakley	NDEP	775-687-9396	aoakley@ndep.nv.gov
Scott Smale	NDEP	775-687-9384	ssmale@ndep.nv.gov
Brad Cross	ARCADIS U.S.	480-905-9311	brad.cross@arcadis-us.com
John Kivett	ARCADIS U.S.	702-485-6000	john.kivett@arcadis-us.com
Mike Shivell	ARCADIS U.S.	585-385-0090	mike.shivell@arcadis-us.com
David Hull	ARCADIS U.S.	916-786-0320	David.hull@arcadis-us.com
Mike Rojo	NV Energy	702-402-1319	mrojo@nvenergy.com
Jason Reed	NV Energy	702-402-5958	jreed@nvenergy.com
Scott Dethloff	CH2MHill	702-402-5000	Scott.Dethloff@ch2m.com
Matt Johns	CH2MHill	702-402-5416	matt.johns@ch2m.com
Sergio Escobar	CDWR	916-653-9493	sergio.escobar@water.ca.gov
Peter Mesard	Exponent	510-268-5009	pmesard@exponent.com
Joseph Scalia	Exponent	425-519-8711	jscaliam@exponent.com
Becky Svatos	Stanley Consultants	319-626-3990	svatosbecky@stanleygroup.com
Africa Espina	Stanley Consultants	319-626-5319	espinaafrica@stanleygroup.com
Jonathan Sarich	Stanley Consultants	702-534-2123	sarichjonathan@stanleygroup.com
Bill Carrig	Stanley Consultants	319-626-5332	carrigbill@stanleygroup.com
Julie Oriano	Stanley Consultants	319-626-5330	orianojulie@stanleygroup.com